

Appl. No. 10/714,970
Amendment dated: September 9, 2005
Reply to OA of: July 27, 2005

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1(currently amended). A heat dissipating fan comprising:
a cover plate including an air inlet and a base;
an impeller mounted to the base to constitute a fan unit, and the impeller further including a plurality of blades; and

an air guiding member including a sidewall, an air passageway defined between a first end and a second end of the sidewall, said first end of the air guiding member connecting to said cover plate in a stacked relationship, and the air guiding member further including an air outlet proximate to said second end of the air guiding member beyond the fan unit such that the air outlet disposed at said second end can be expanded;

a portion of an axial height of one of said blades being received in a first section of the air passageway of the air guiding member and a portion of a hub portion of the fan unit in the first section of the air passageway of the air guiding member so as to reduce an overall thickness of the combination of the fan unit and the air guiding member, and to remain a second section of the air passageway of the air guiding member below the hub portion of the fan unit;

a plurality of auxiliary side inlets being defined between the cover plate and the air guiding member, air intake occurring simultaneously in the air inlet and in the auxiliary side inlets when the impeller turns, the side wall guiding confining cool air in the second section of the air passageway to diffuse to a pass through near regions below the hub portion of the fan unit and then to exit the expanded air outlet in a predetermined direction.

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2(original). The heat dissipating fan as claimed in claim 1, wherein the cover plate includes a first engaging portion and the air guiding member includes a second engaging portion engaged with the first engaging portion.

3(original). The heat dissipating fan as claimed in claim 2, wherein the first engaging portion includes a plurality of through-holes and the second engaging portion includes a plurality of posts each having a screw hole aligned with the respective through-hole.

4(original). The heating dissipating fan as claimed in claim 2, wherein the second engaging portion includes a plurality of through-holes and the first engaging portion includes a plurality of posts each having a screw hole aligned with the respective through-hole.

5(original). The heat dissipating fan as claimed in claim 1, wherein the impeller is mounted to an upper side of the base of the cover plate.

6(original). The heat dissipating fan as claimed in claim 1, wherein the impeller is mounted to an underside of the base of the cover plate.

7(original). The heat dissipating fan as claimed in claim 1, wherein a sectional area of an air outlet side of the air passageway is smaller than that of an air inlet side of the air passageway.

8(original). The heat dissipating fan as claimed in claim 1, wherein the air passageway extends in a direction at an angle with an airflow direction, guiding the airflow to the predetermined direction.

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9(original). The heat dissipating fan as claimed in claim 1, wherein the cover plate includes a plurality of posts projecting downward from a peripheral portion of an underside of the cover plate, reducing possibility of entrance of alien objects and improving structural strength of the impeller.

10(original). The heat dissipating fan as claimed in claim 1, wherein the air guiding member includes a plurality of posts projecting upward from a peripheral portion of an upper side of the air guiding member, reducing possibility of entrance of alien objects and improving structural strength of the impeller.

11(original). The heat dissipating fan as claimed in claim 1, further including a plurality of ribs connected between the cover plate and the base.

12(original). The heat dissipating fan as claimed in claim 11, wherein the ribs form a plurality of stationary blades for guiding airflow.

13(previously presented). The heat dissipating fan as claimed in claim 12, wherein the respective stationary blade includes an inclining angle opposite to that of the blades.